

### Abstract

An instrument for aligning an x-ray beam relative to an x-ray film and a target tooth of an animal patient. The instrument orients the beam relative to the film, to produce dental radiographs of the target tooth in accordance with the bisecting-angle technique. More specifically, the instrument includes an alignment tool configured to align a longitudinal axis of the x-ray beam orthogonal to a bisecting plane lying approximately midway between a target plane defined by the target tooth, and an x-ray film plane defined by the x-ray film. In some embodiments, the instrument may also include an x-ray film holder and an x-ray film holder support, allowing the film to be conveniently positioned and held in proper alignment during an x-ray procedure.